

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	New
				Filing Date	9/12/2003
				First Named Inventor	Shirai et al.
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	1	of	1	Attorney Docket Number	21334-1255

U. S. PATENT DOCUMENTS							
Examiner Initials		Document Number	Date	Name	Class	Sub- Class	Filing Date
NA	AA	5,984,693	11/16/1999	McHugh et al.	439	66	12/17/1998
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						

FOREIGN PATENT DOCUMENTS							
Examiner Initials		Document Number	Date	Country	Class	Sub- Class	TRNS Y/N
	AS						
	AT						
	AU						
	AV						
	AW						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AX	
AY	
AZ	

Examiner Signature	<i>N. Alb...</i>	Date Considered	4-4-04
-----------------------	------------------	--------------------	--------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

1 of 1

Complete If Known

Application Number	10/662,006
Filing Date	9/12/2003
First Named Inventor	Shirai et al.
Group Art Unit	3661
Examiner Name	Unknown
Attorney Docket Number	21334-1255

U. S. PATENT DOCUMENTS							
Examiner Initials		Document Number	Date	Name	Class	Sub-Class	Filing Date
WA	AA	5,688,140	11/18/1997	McHugh et al.	439	342	12/28/1995
	AB	4,857,001	8/15/1989	Nakano et al.	439	68	4/6/1988
	AC	6,299,492 B1	10/9/2001	Pierini et al.	439	884	3/15/1999
	AD	6,164,978	12/26/2000	McHugh et al.	439	66	10/8/1999
NA	AE	US2002/0111052 A1	8/15/2002	Noda et al.	439	71	1/20/2002
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						

FOREIGN PATENT DOCUMENTS							
Examiner Initials		Document Number	Date	Country	Class	Sub-Class	TRNS Y/N
	AS						
	AT						
	AU						
	AV						
	AW						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AX	European Search Report; Application No. EP 03 25 5558; dated 12/10/2003
AY	
AZ	

Examiner Signature	<i>[Signature]</i>	Date Considered	4-4-04
--------------------	--------------------	-----------------	--------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.